

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/16530

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04M1/73 H04M1/725

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | PATENT ABSTRACTS OF JAPAN<br>vol. 1999, no. 04,<br>30 April 1999 (1999-04-30)<br>& JP 11 017572 A (NEC CORP),<br>22 January 1999 (1999-01-22)<br>abstract | 12                    |
| A          |   | 1-11,<br>13-21        |
| A          | & US 6 272 116 A<br>7 August 2001 (2001-08-07)<br>abstract  | 1-11,<br>13-21        |
| X          | column 1, line 66 -column 5, line 53<br>figures 2-4   | 12                    |
| A          | GB 1 358 029 A (STANDARD TELEPHONES CABLES<br>LTD) 26 June 1974 (1974-06-26)<br>the whole document  | 1-21                  |
|            | ---<br>-/-  |                       |

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

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\*P\* document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

19 September 2002

Date of mailing of the international search report

26/09/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Tzimeas, K

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| A          | WO 00 33469 A (CONEXANT SYSTEMS INC)<br>8 June 2000 (2000-06-08)<br>abstract<br>page 2, line 22 -page 5, line 33<br>---   | 1-21                  |
| A          | WO 00 70781 A (MTEK SEMICON CO LTD ;JEON<br>KI (KR); CHOI SUNG HYUN (KR))<br>23 November 2000 (2000-11-23)<br>abstract<br>page 3, line 26 -page 5, line 9<br>figures 1,2<br>----- | 1-21                  |

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s)     | Publication<br>date      |
|---|---|---------------------|--------------------------------|--------------------------|
| JP 11017572                               | A | 22-01-1999          | JP 3055497 B2<br>US 6272116 B1 | 26-06-2000<br>07-08-2001 |
| GB 1358029                                | A | 26-06-1974          | NONE                           |                          |
| WO 0033469                                | A | 08-06-2000          | WO 0033469 A1                  | 08-06-2000               |
| WO 0070781                                | A | 23-11-2000          | WO 0070781 A1<br>KR 196569 Y1  | 23-11-2000<br>15-09-2000 |